PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JXP/PB60925		FOR FURTHER ACTION See Form PCT/IPEA/416						
l	rnational application T/EP2004/00782		International filing date 09.07.2004	(day/month/year)	Priority date (day/mor 11.07.2003	nth/year)		
	rnational Patent Clas 7J3/00, A61K31/5		ational classification and	PC				
	olicant AXO GROUP LIN	MITED et al.						
This report is the international preliminary e Authority under Article 35 and transmitted to			liminary examination ronsmitted to the applica	eport, established by t nt according to Article	this International Prelimir 36.	nary Examining		
2. This REPORT consists of a total of 6 sheets, in				his cover sheet.				
3.	This report is als	o accompanied b	y ANNEXES, comprisi	ng:				
	a. D sent to th	e applicant and to	o the International Bure	eau) a total of sheets	, as follows:			
	and/c	ts of the description or sheets containing inistrative instruct	ng rectifications author	ings which have been ized by this Authority	amended and are the ba (see Rule 70.16 and Sec	asis of this report ction 607 of the		
	beyo				nsiders contain an amen idicated in item 4 of Box			
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4.	This report conta	ains indications re	lating to the following i	tems:				
	⊠ Box No. I	Basis of the opin	nion					
	☐ Box No. II	Priority						
	☑ Box No. III	•	ent of opinion with rega	ard to novelty, inventiv	e step and industrial app	plicability		
	☐ Box No. IV	Lack of unity of	•	-				
	☐ Box No. V	Reasoned state applicability; cita	ment under Article 35(ations and explanations	2) with regard to nove s supporting such stat	lty, inventive step or indu ement	ustrial		
	☐ Box No. VI	Certain docume	nts cited					
	Box No. VII	Certain defects	in the international app	lication				
	☑ Box No. VIII	Certain observa	tions on the internatior	al application				
Date	e of submission of the	e demand		Date of completion of	this report			
23.	23.12.2004			30.06.2005				
	ne and mailing addres		al	Authorized Officer		Series Pelenten,		
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80/564299

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

IAP20 Res'd Common 11 JAN 2006 International application No. PCT/EP2004/007820

	Во	x No. I Basis of the report							
1.	With regard to the language , this report is based on the international application in the language in which it wa filed, unless otherwise indicated under this item.								
		☐ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:							
		 ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3) 							
2.	hav	lith regard to the elements* of the international application, this report is based on <i>(replacement sheets which</i> ave been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this eport as "originally filed" and are not annexed to this report):							
	Des	acription, Pages							
	1-19	as originally filed							
	Claims, Numbers								
	1-9	as originally filed							
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing							
3.		The amendments have resulted in the cancellation of:							
		☐ the description, pages ☐ the claims, Nos.							
		☐ the drawings, sheets/figs							
		☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):							
4.	□ had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below I not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the oplemental Box (Rule 70.2(c)).							
		☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs							
		☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):							
	*	If item 4 applies, some or all of these sheets may be marked "superseded."							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007820

		x No. III Non-establishment o Dicability	of op	inion with regard to novelty, inventive step and industrial			
1.	. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		☐ the entire international application,					
	⊠	claims Nos. 8					
		because:					
	×	the said international application, or the said claims Nos. 8 only regarding industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):					
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the said claims Nos.					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
				and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
		See separate sheet for further	detai	ds			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007820

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-9

Claims No:

Inventive step (IS)

Yes: Claims

1-9

Claims

1-8

Industrial applicability (IA)

Yes: Claims Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

10/564299 IAP20 Rec'd FOT/FTO 11 JAN 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/007820

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 8 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: WO 02/00679 A (NOVARTIS ERFIND VERWALT GMBH; NOVARTIS AG (CH); BEATTIE DAVID (GB); C) 3 January 2002 (2002-01-03)
 - D2: GB-A-1 514 476 (GLAXO LAB LTD) 14 June 1978 (1978-06-14)
 - D3: US-A-3 856 828 (PHILLIPPS G ET AL) 24 December 1974 (1974-12-24)
 - D4: UENO H ET AL: "Synthesis and evaluation of antiinflammatory activities of a series of corticosteroid 17.alpha.-esters containing a functional group"

 JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL

 SOCIETY. WASHINGTON, US, vol. 34, no. 8, 1 August 1991 (1991-08-01), pages 2468-2473, XP002086576 ISSN: 0022-2623

2. Novelty

The claimed subject matter is concerned with one specific steroid compound. None of the documents of the search report disclose such compound. The claimed subject matter can be considered as novel.

3. Inventive step

Document D1, which is considered to represent the most relevant state of the art, discloses (cf. examples 14,24 and claim 1) a steroid from which the subject-matter of claim 1 differs (at least one feature) in that cyano-ester on position 17 of ring system

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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instead of methyl-ester. Beside this, other structural features are different (in total 3 different technical feature).

The problem to be solved by the present invention may therefore be regarded as to provide a novel steroid useful as anti-inflammatory.

None of the documents cited in the search report neither alone or combined together would have led the skilled person to this specific steroid as claimed and foresee that such compound would still exert anti-inflammatory activities.

The claimed subject matter can be considered as inventive.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D4 is not mentioned in the description, nor are these documents identified therein.

Even though these documents are cited as A category in the search report, they should be mentioned in the description because no other prior art have been cited.

Re Item VIII

Certain observations on the international application

For the assessment of the present claim 8 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

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